FIG.1

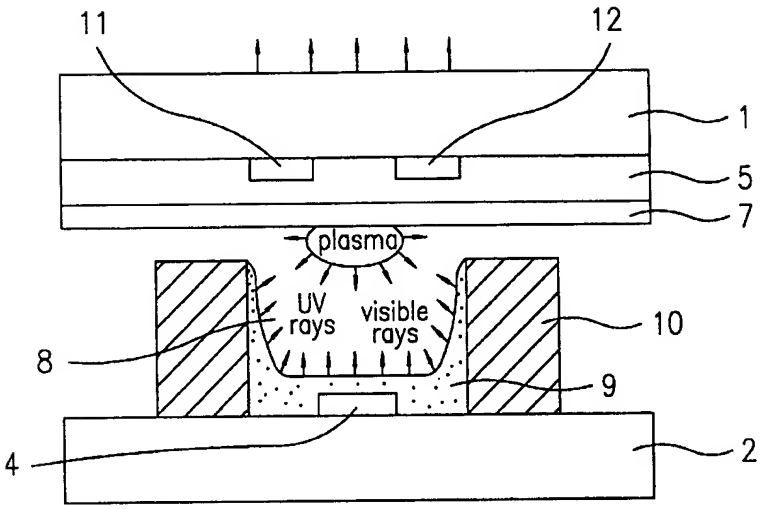


FIG.2
prior art

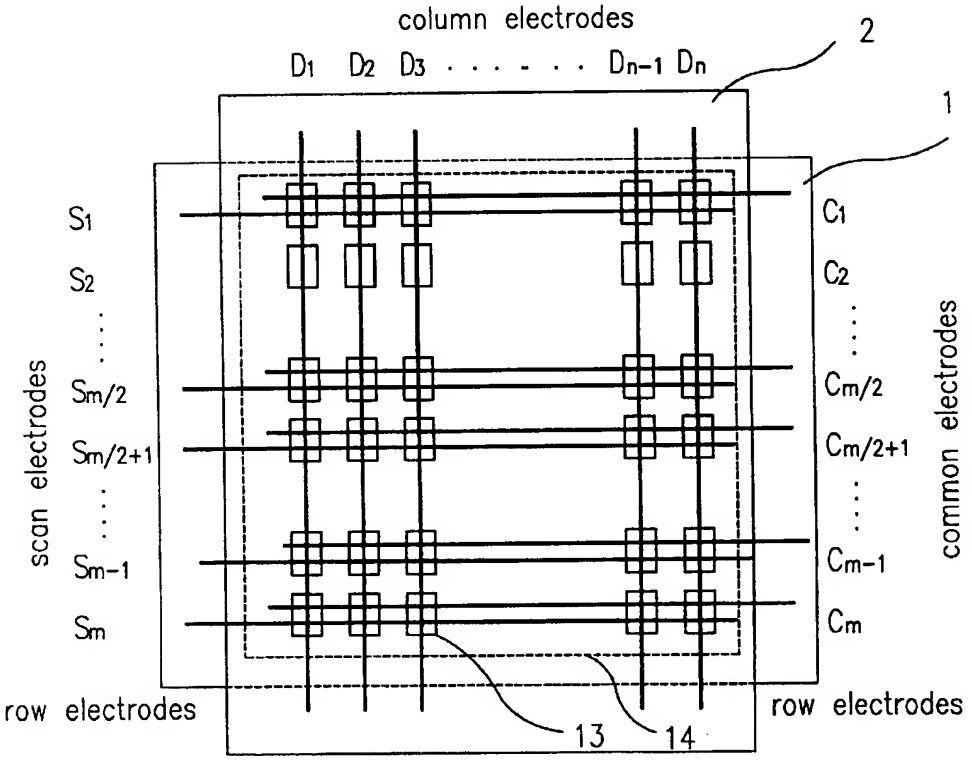


FIG.3
prior art

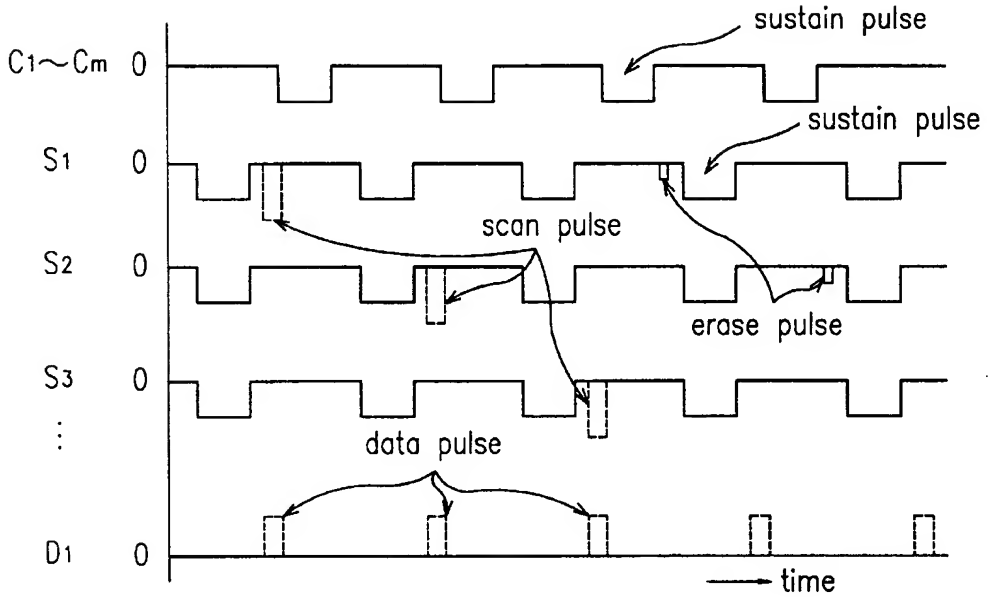


FIG.4
prior art

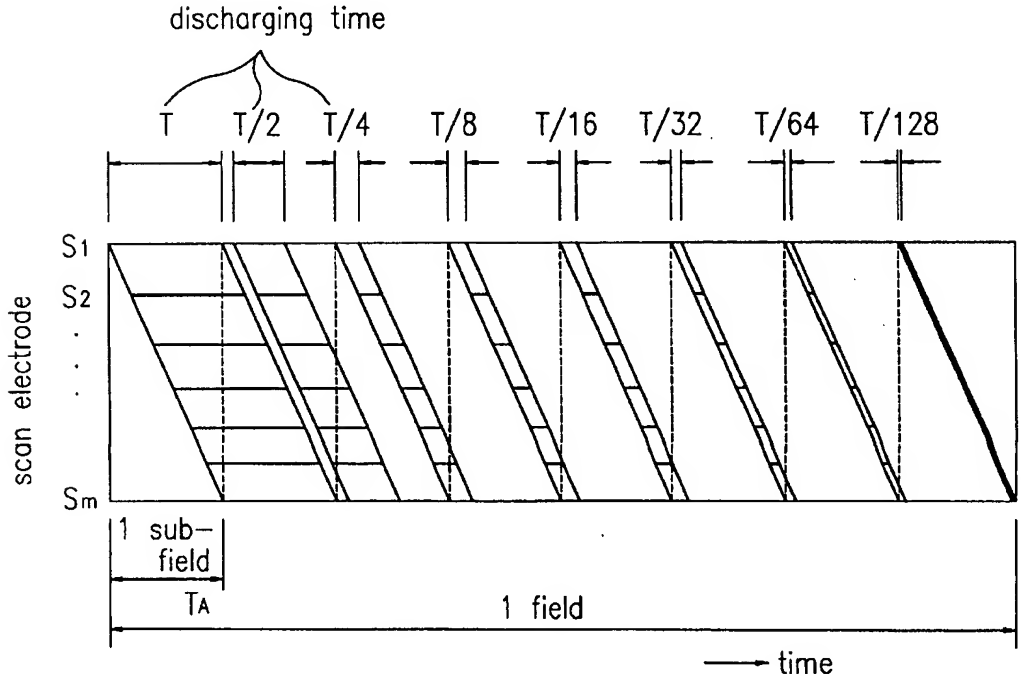


FIG.5
prior art

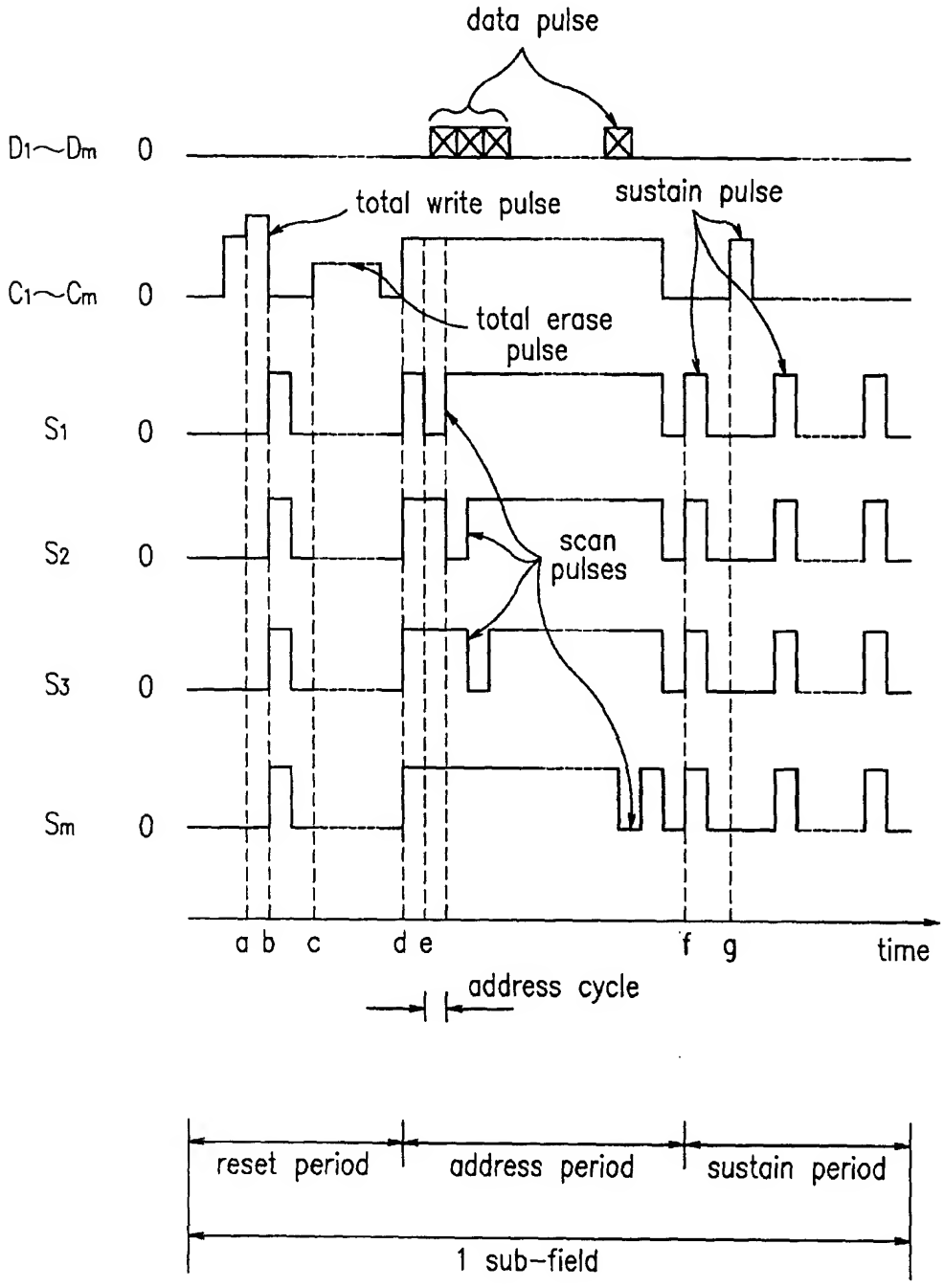


FIG.6
prior art

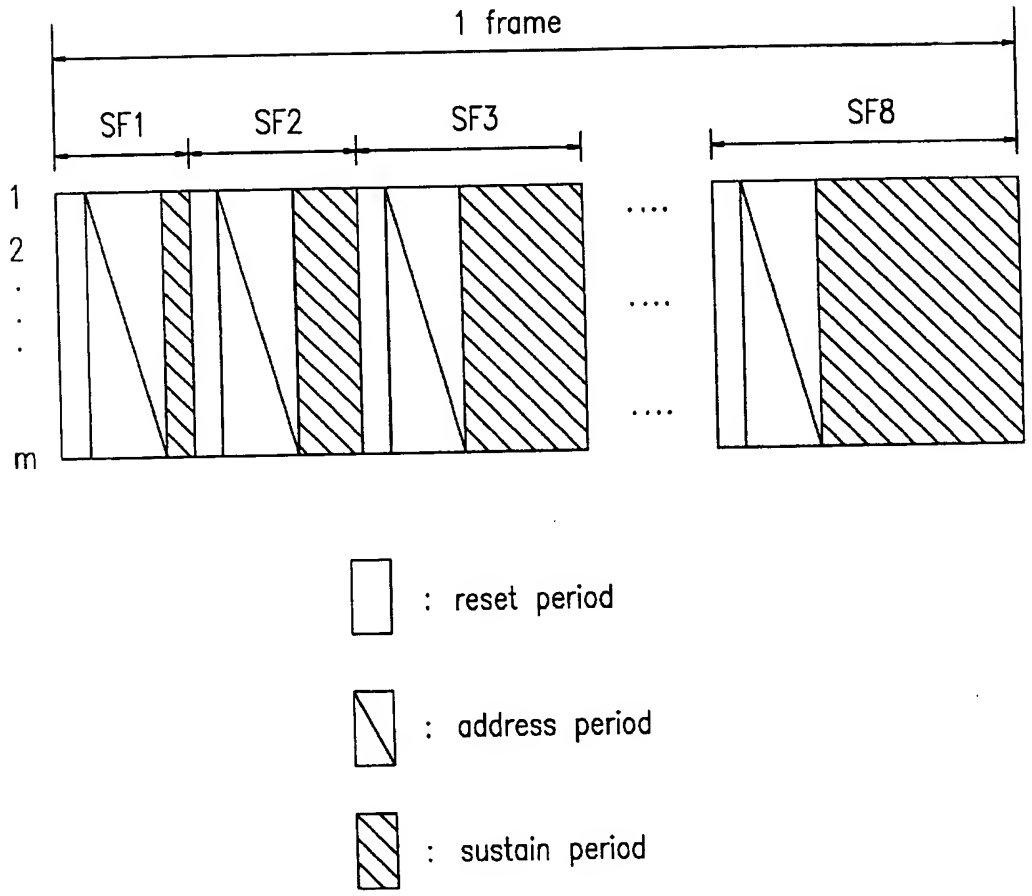


FIG.7

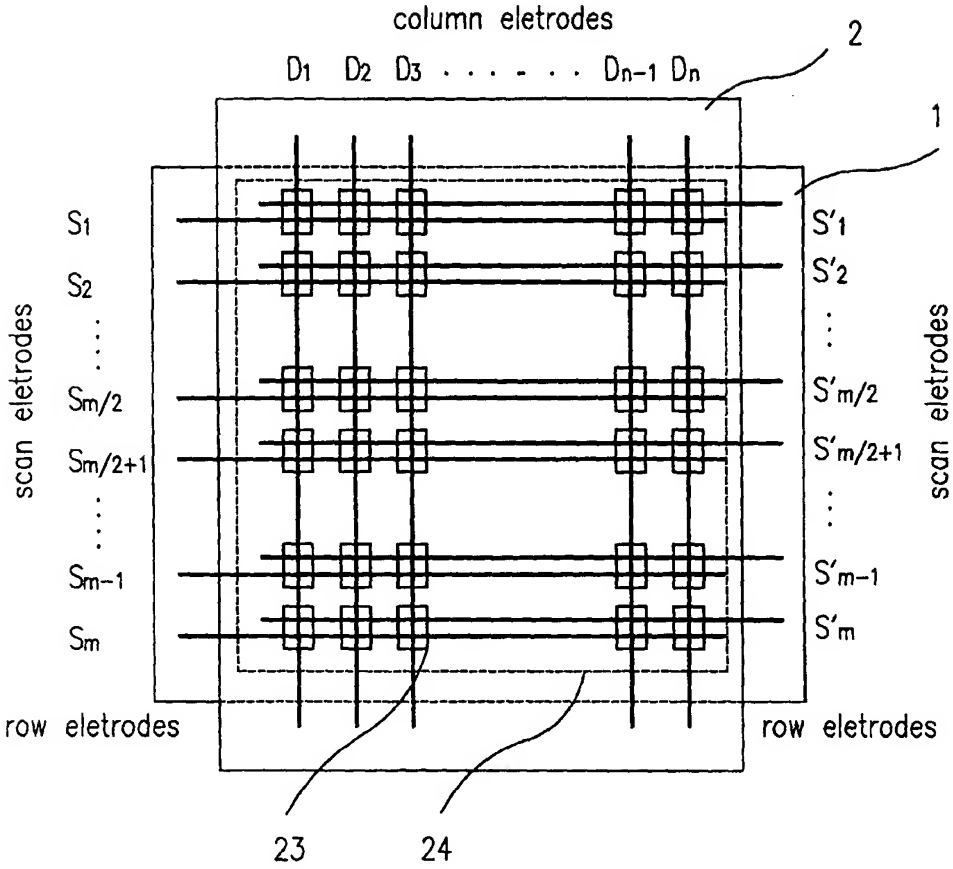

column eletrodes
D1 D2 D3 . . . . . Dn-1 Dn
2
1
S1
S2
Sm/2
Sm/2+1
Sm-1
Sm
S'1
S'2
S'm/2
S'm/2+1
S'm-1
S'm
scan eletrodes
scan eletrodes
row eletrodes
row eletrodes
23
24

FIG.8

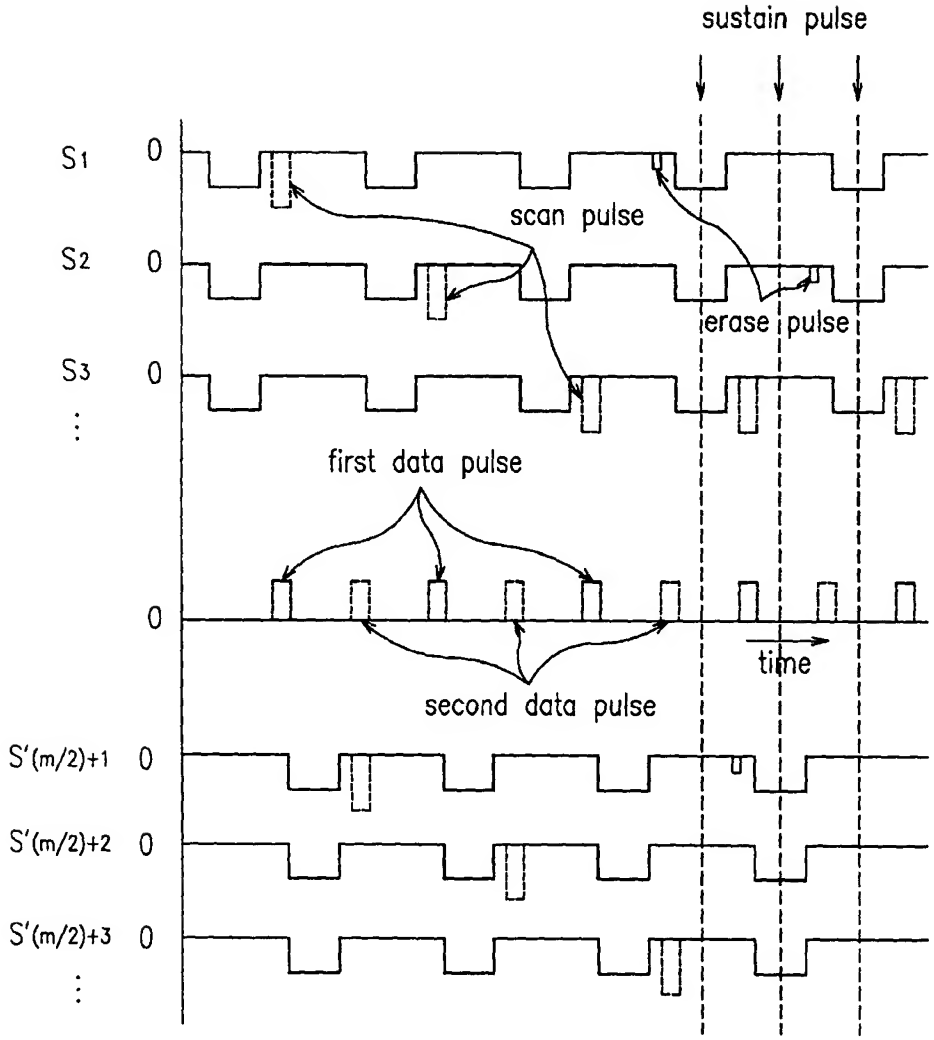

sustain pulse
S1
S2
S3
0
scan pulse
erase pulse
first data pulse
second data pulse
time
S'(m/2)+1
S'(m/2)+2
S'(m/2)+3

FIG.9A

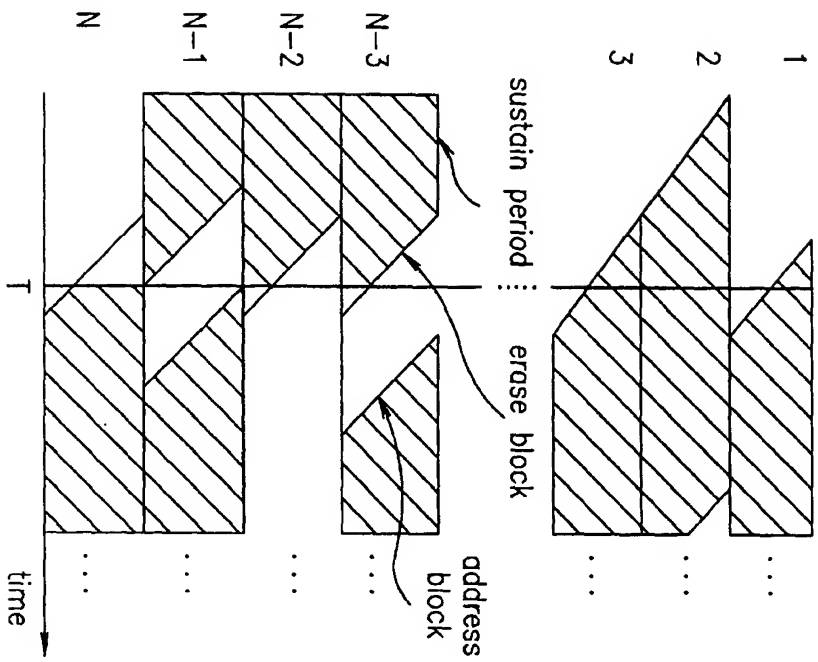

N
N-1
N-2
N-3
3
2
1
sustain period
erase block
address block
T
time

FIG.9B

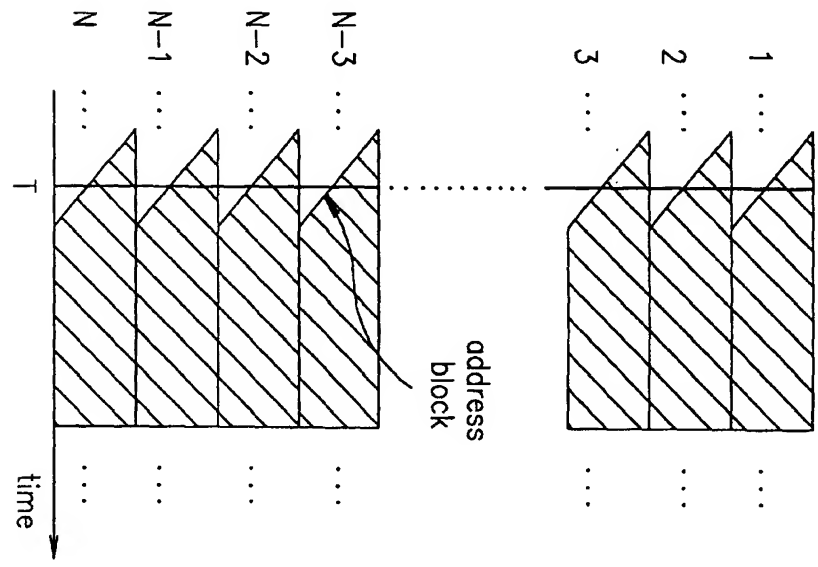

N
N-1
N-2
N-3
3
2
1
address block
T
time

FIG. 10

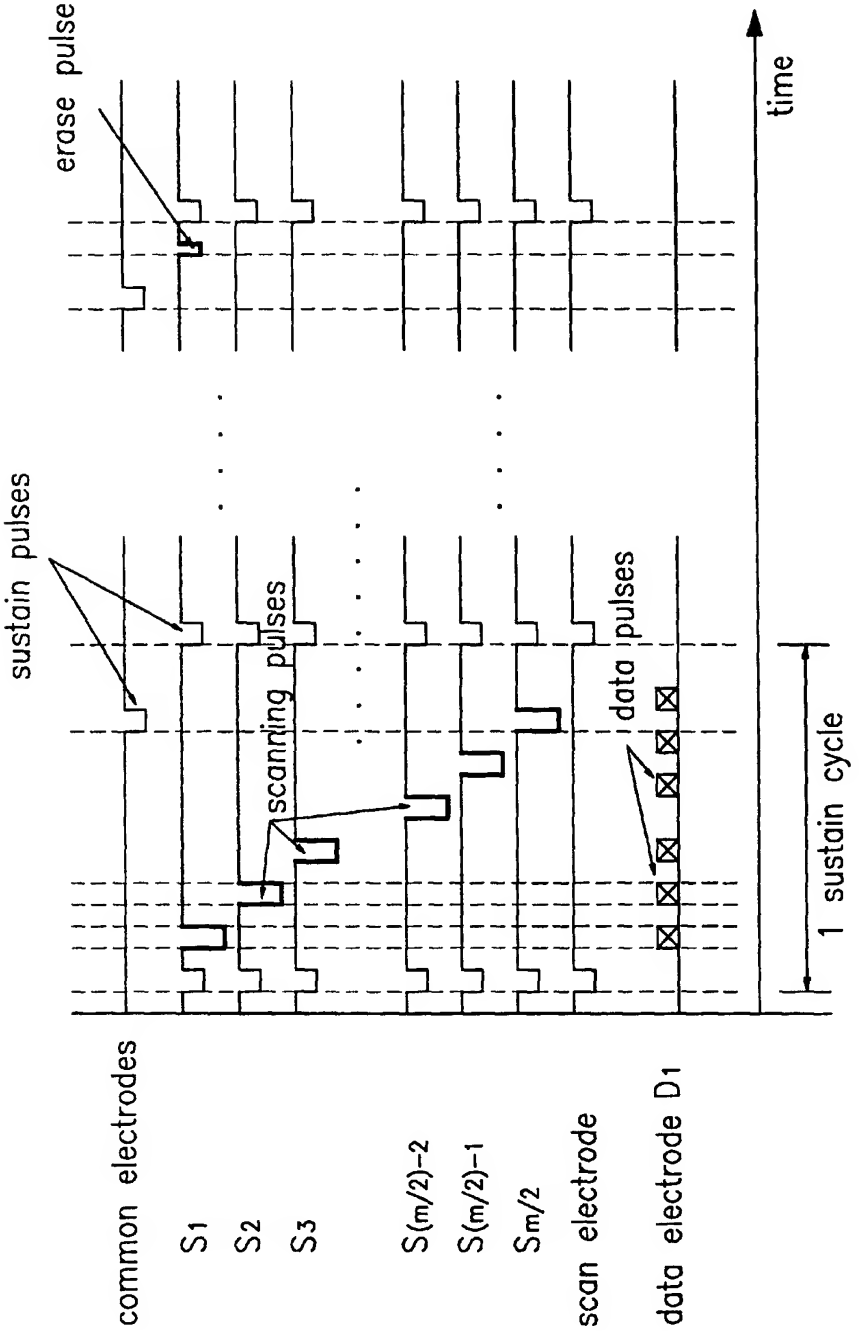

erase pulse
time
sustain pulses
scanning pulses
data pulses
1 sustain cycle
common electrodes
S1
S2
S3
S(m/2)-2
S(m/2)-1
Sm/2
scan electrode
data electrode D1

FIG. 11

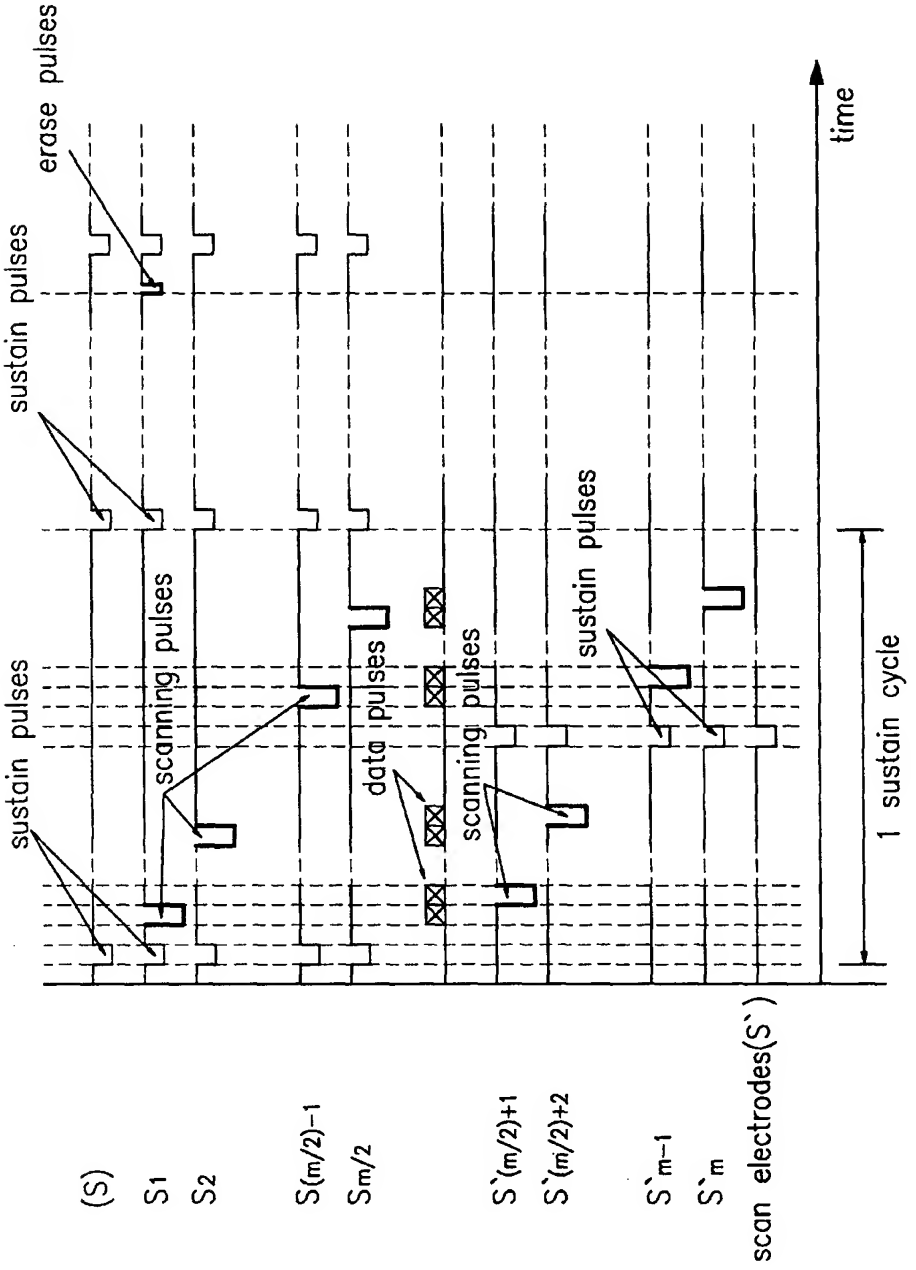

erase pulses
sustain pulses
sustain pulses
scanning pulses
data pulses
scanning pulses
sustain pulses
time
1 sustain cycle
(S)
S1
S2
S(m/2)-1
Sm/2
S`(m/2)+1
S`(m/2)+2
S`m-1
S`m
scan electrodes(S`)

FIG. 12

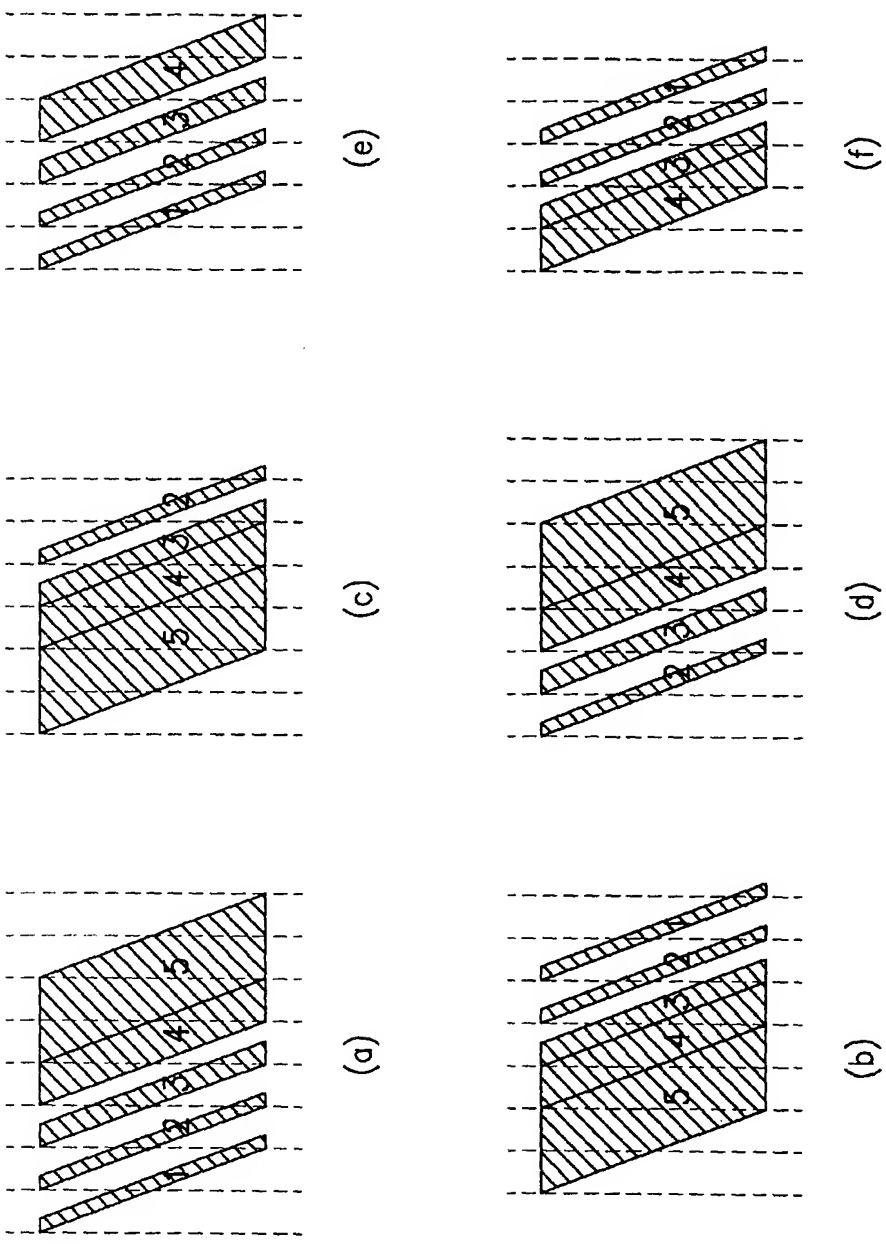


FIG.13

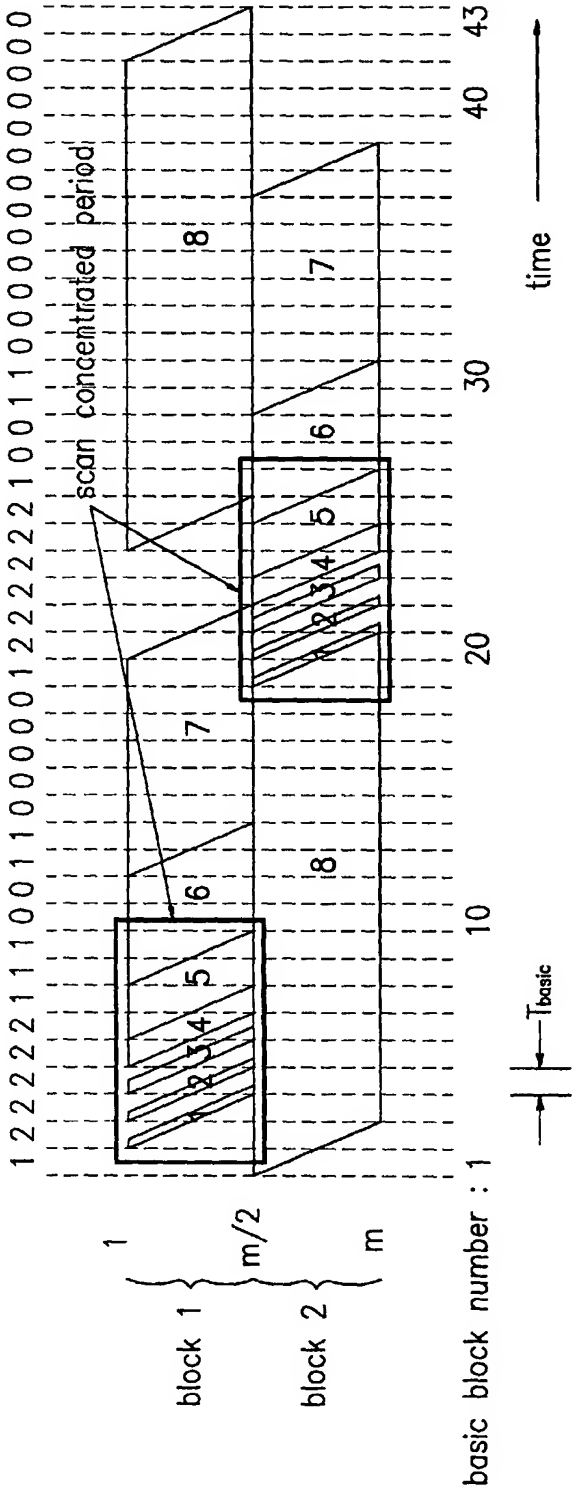

scan concentrated period
time
basic block number : 1
10
20
30
40
43
1
m/2
m
block 1
block 2
T_{basic}

FIG. 14

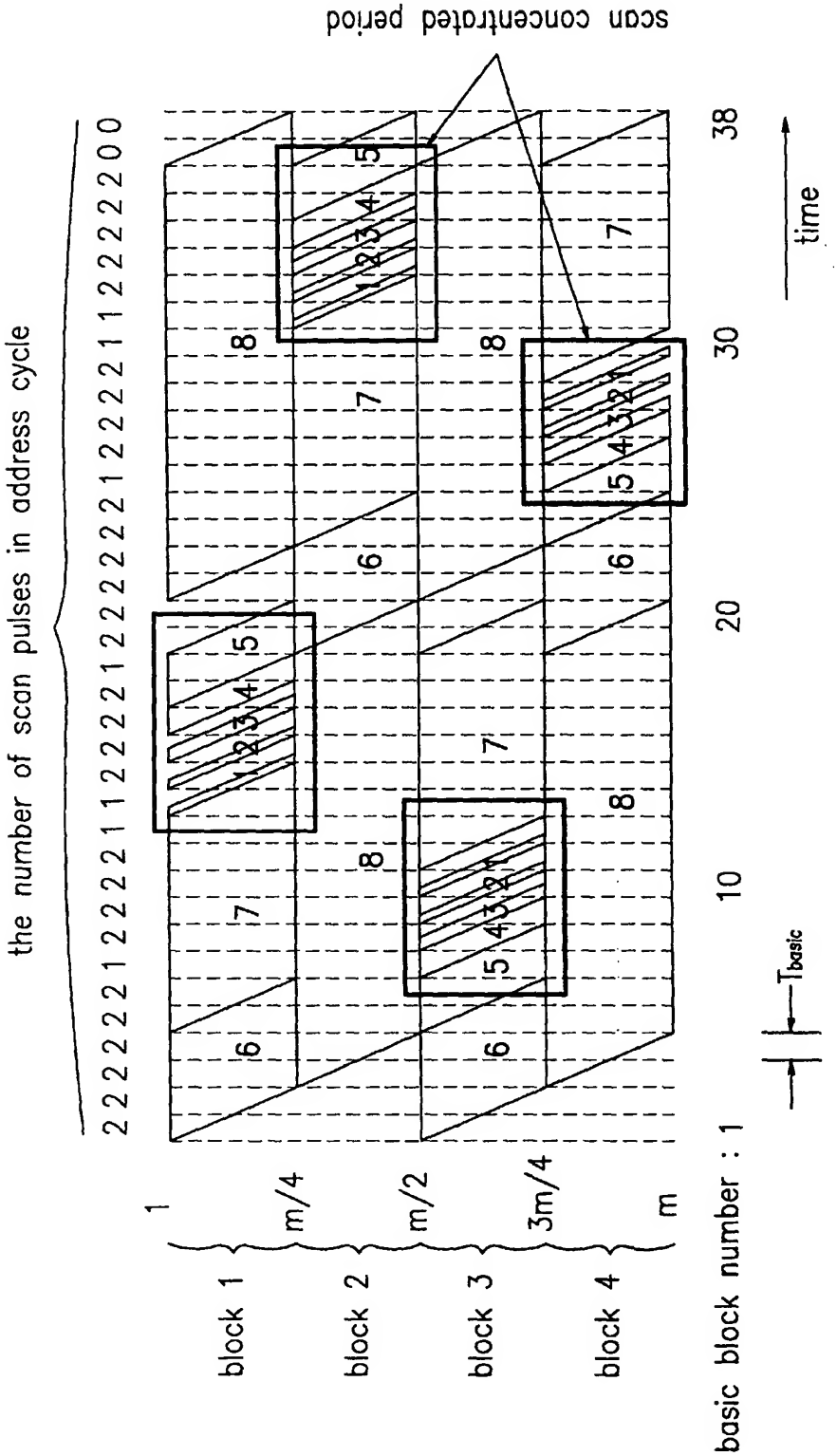
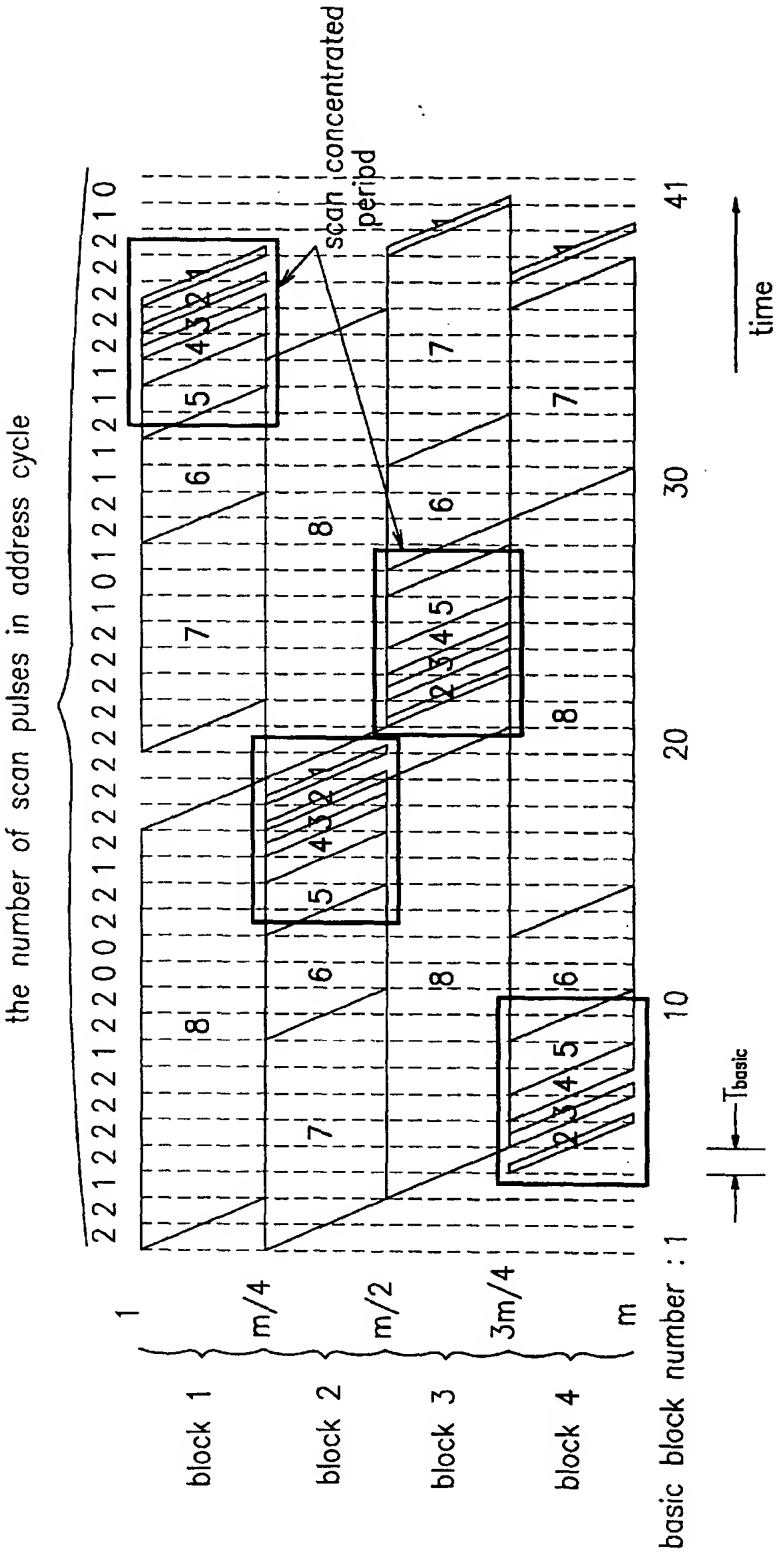

scan concentrated period
the number of scan pulses in address cycle
2 2 2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 2 1 2 2 2 2 2 1 1 2 2 2 2 2 0 0
block 1
block 2
block 3
block 4
1
m/4
m/2
3m/4
m
basic block number : 1
10
20
30
38
time
T_{basic}

FIG. 15


the number of scan pulses in address cycle
2 2 1 2 2 2 2 1 2 2 0 0 2 2 1 2 2 2 2 2 2 2 2 1 0 1 2 2 1 1 2 1 1 2 2 2 2 2 1 0
scan concentrated peribd
time
1
m/4
m/2
3m/4
m
block 1
block 2
block 3
block 4
basic block number : 1
10
20
30
41
Tbasic

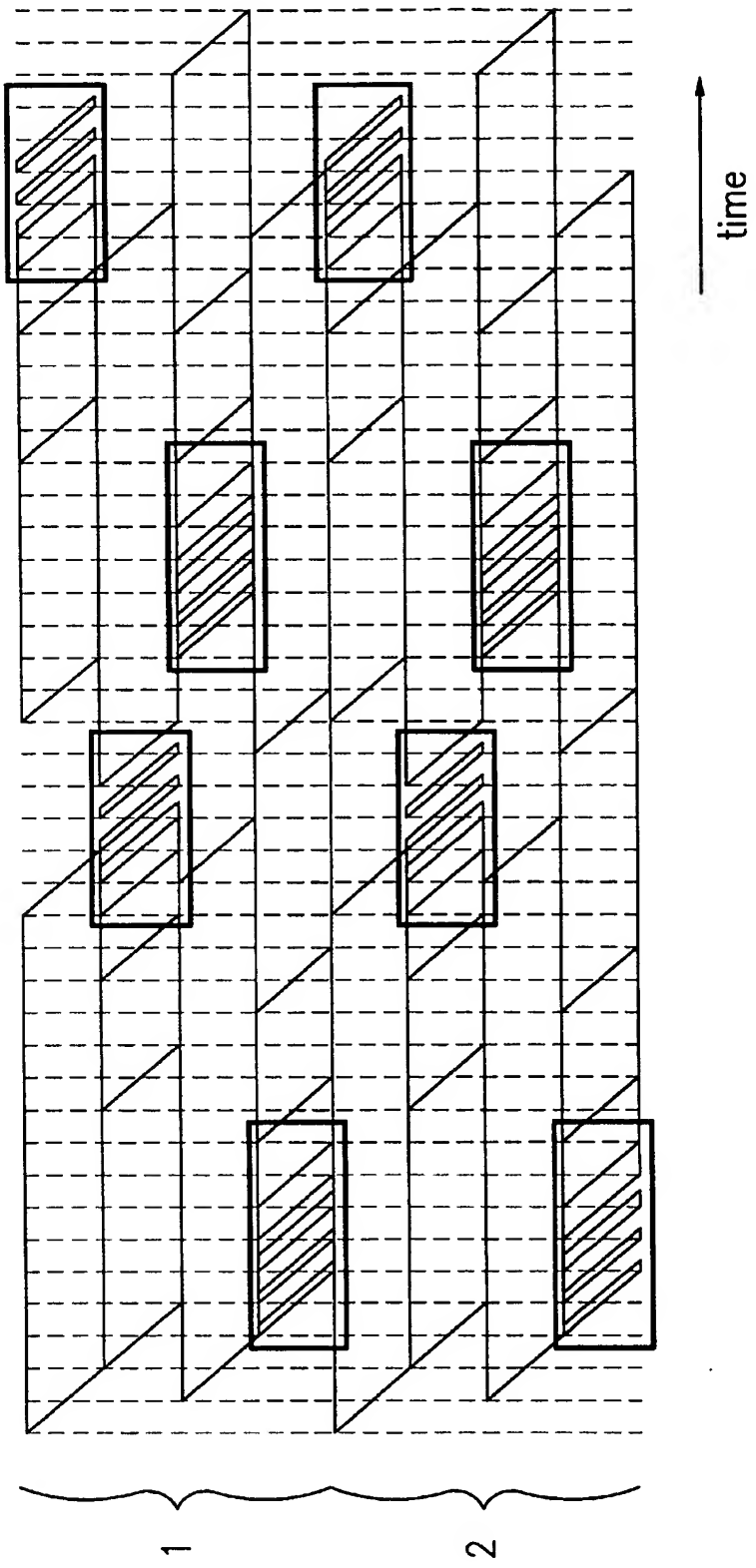


FIG. 16

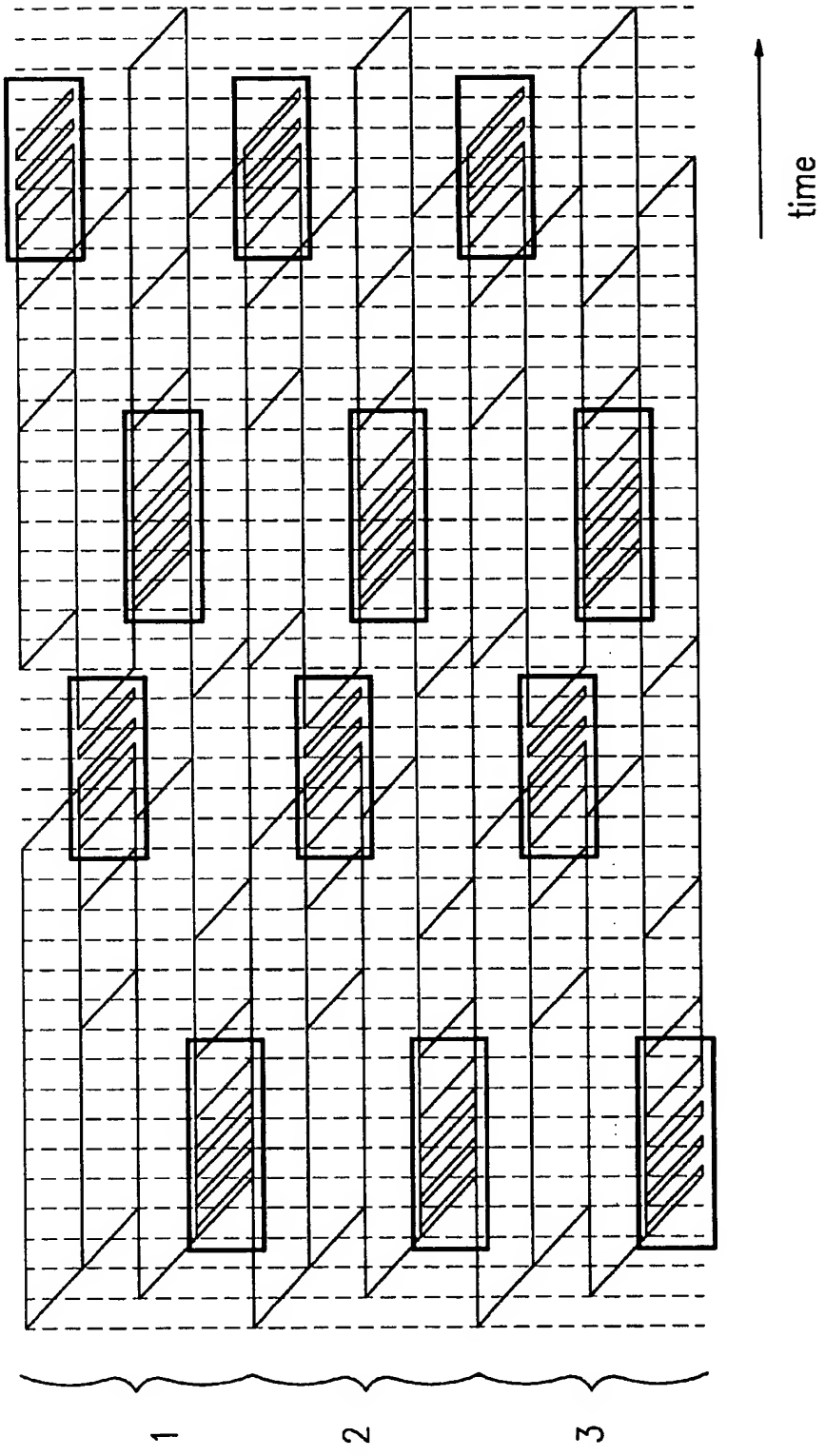


FIG. 17

FIG. 18

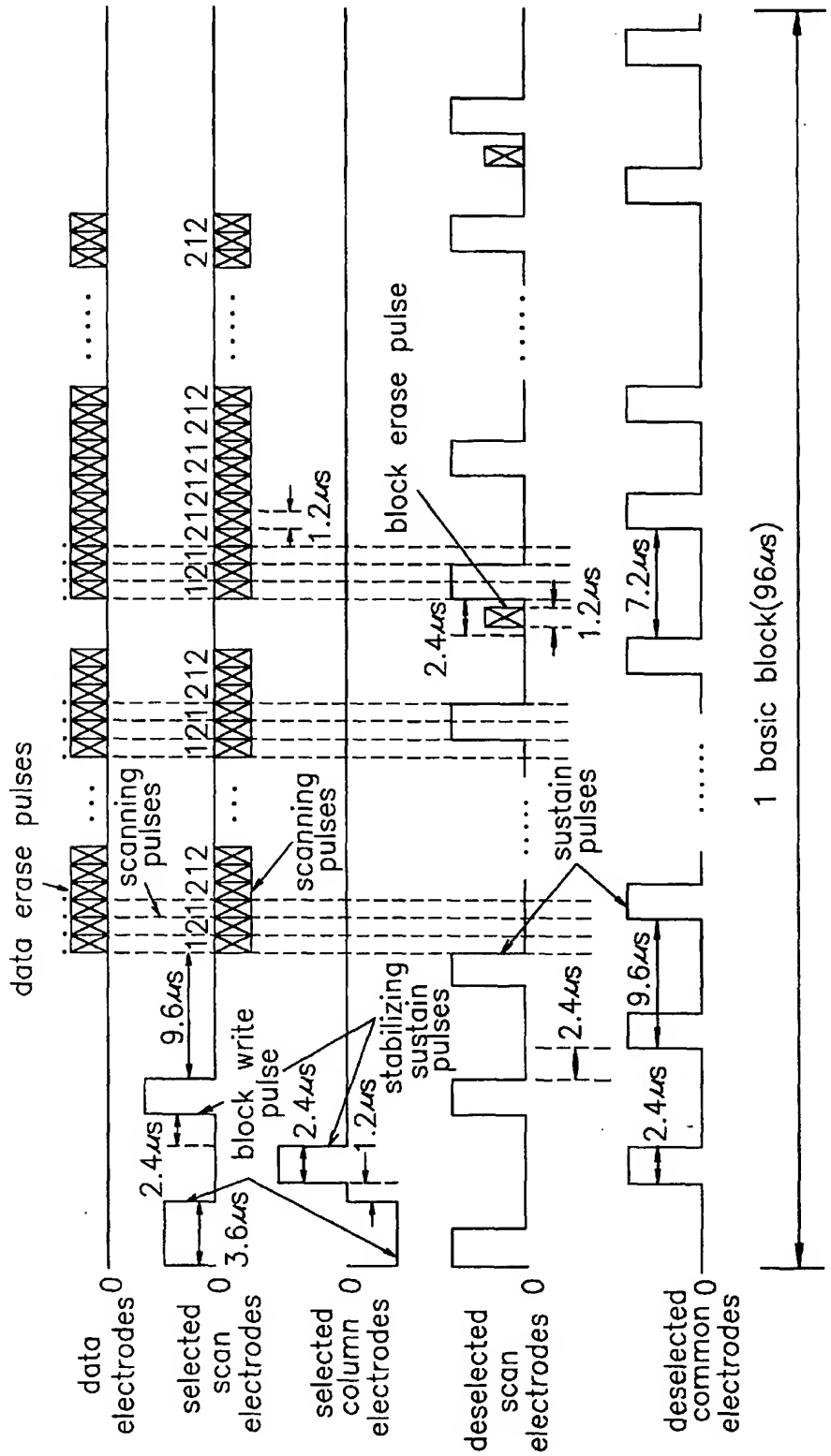
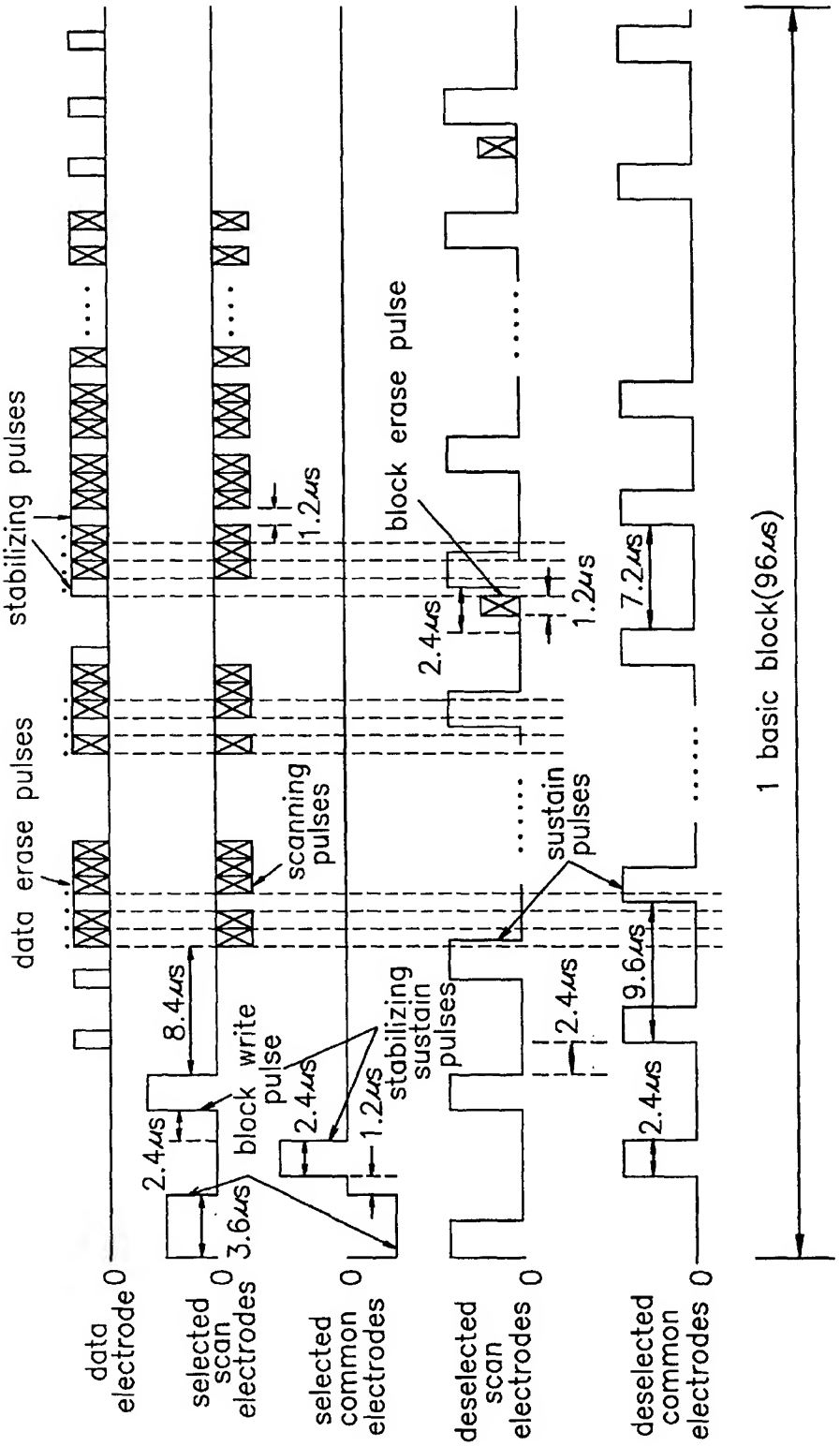

data erase pulses
scanning pulses
scanning pulses
block erase pulse
sustain pulses
stabilizing sustain pulses
block write pulse
9.6μs
2.4μs
3.6μs
1.2μs
7.2μs
1 basic block(96μs)
data electrodes
selected scan electrodes
selected column electrodes
deselected scan electrodes
deselected common electrodes
0
1
2
212

FIG. 19


data erase pulses
stabilizing pulses
scanning pulses
block erase pulse
sustain pulses
block write pulse
stabilizing sustain pulses
8.4μs
2.4μs
3.6μs
1.2μs
7.2μs
9.6μs
1 basic block(96μs)
data electrode
selected scan electrodes
selected common electrodes
deselected scan electrodes
deselected common electrodes
0

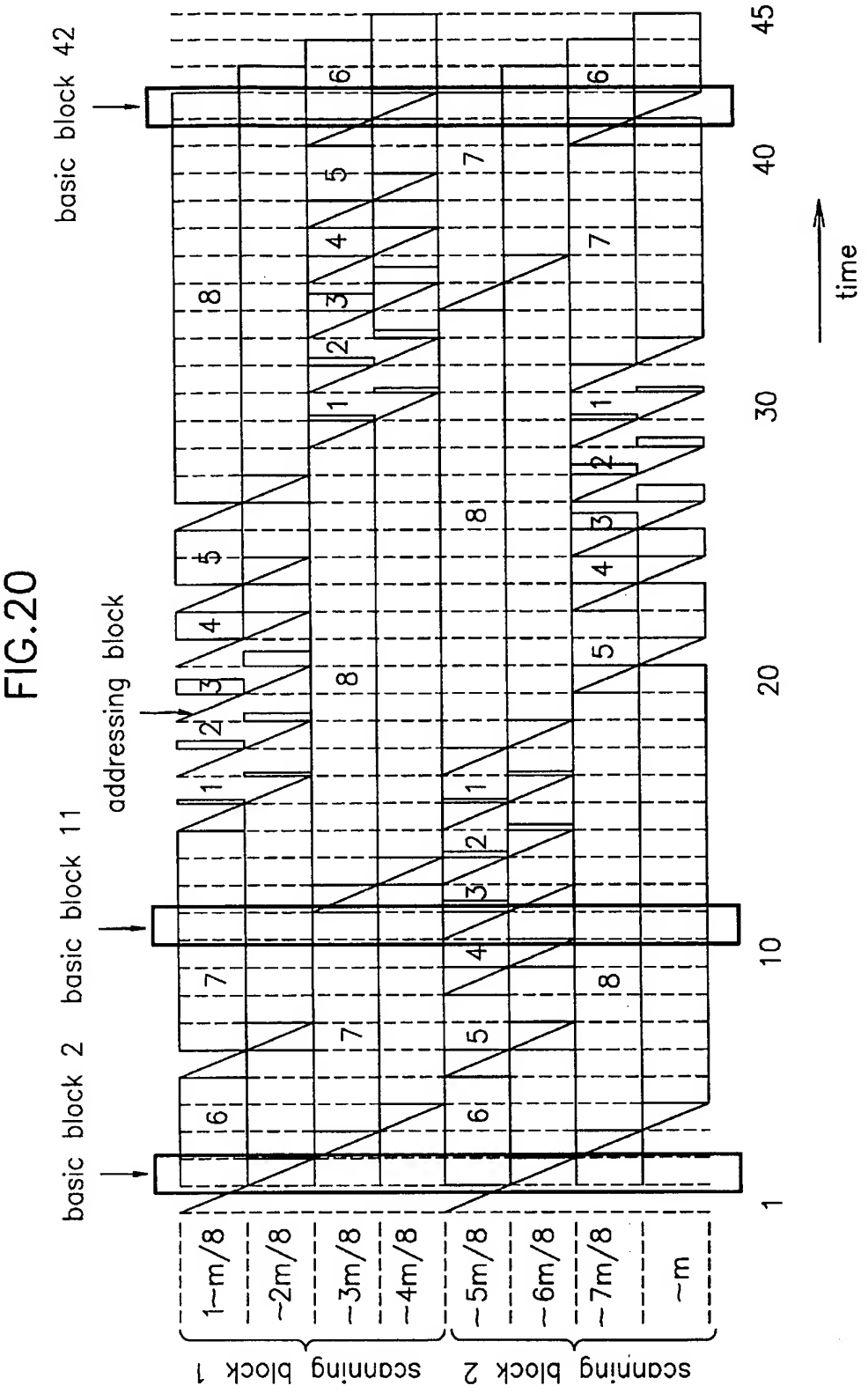

basic block 42
basic block 11
basic block 2
addressing block
time
1
10
20
30
40
45
1~m/8
~2m/8
~3m/8
~4m/8
~5m/8
~6m/8
~7m/8
~m
scanning block 1
scanning block 2

FIG.20

FIG.21

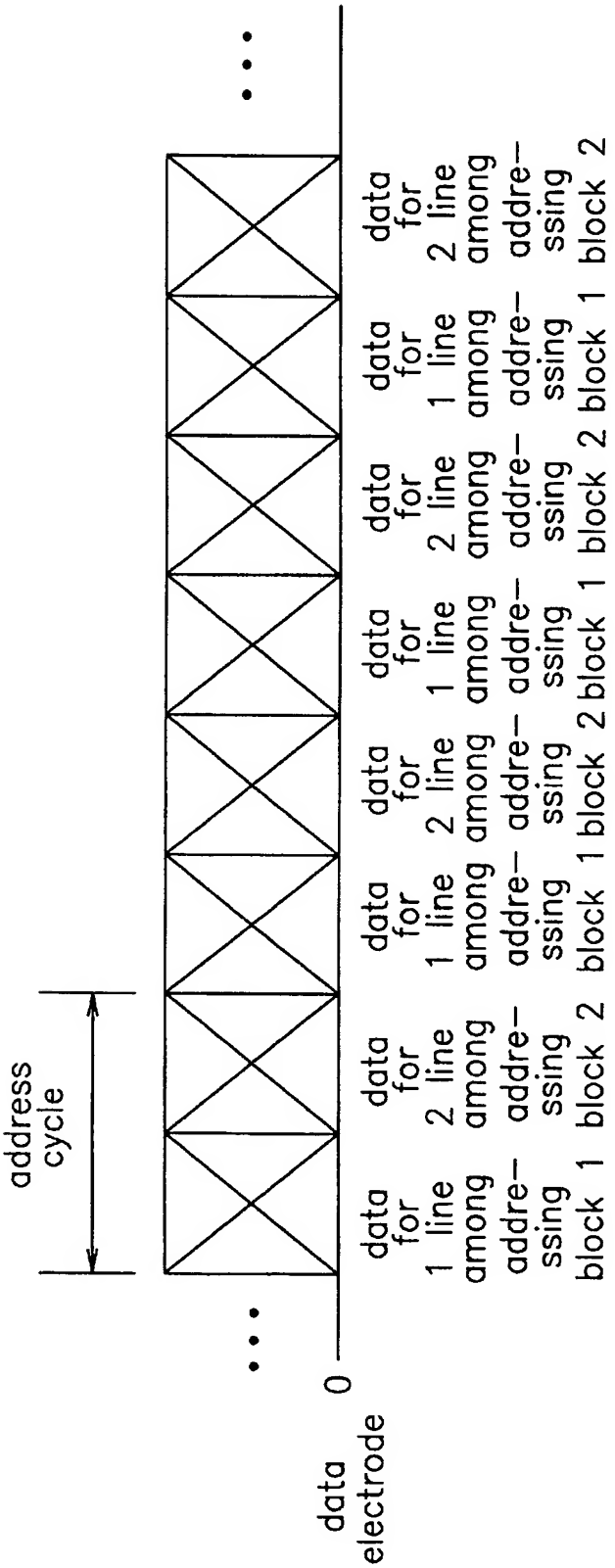

data electrode
0
address cycle
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2

FIG.22

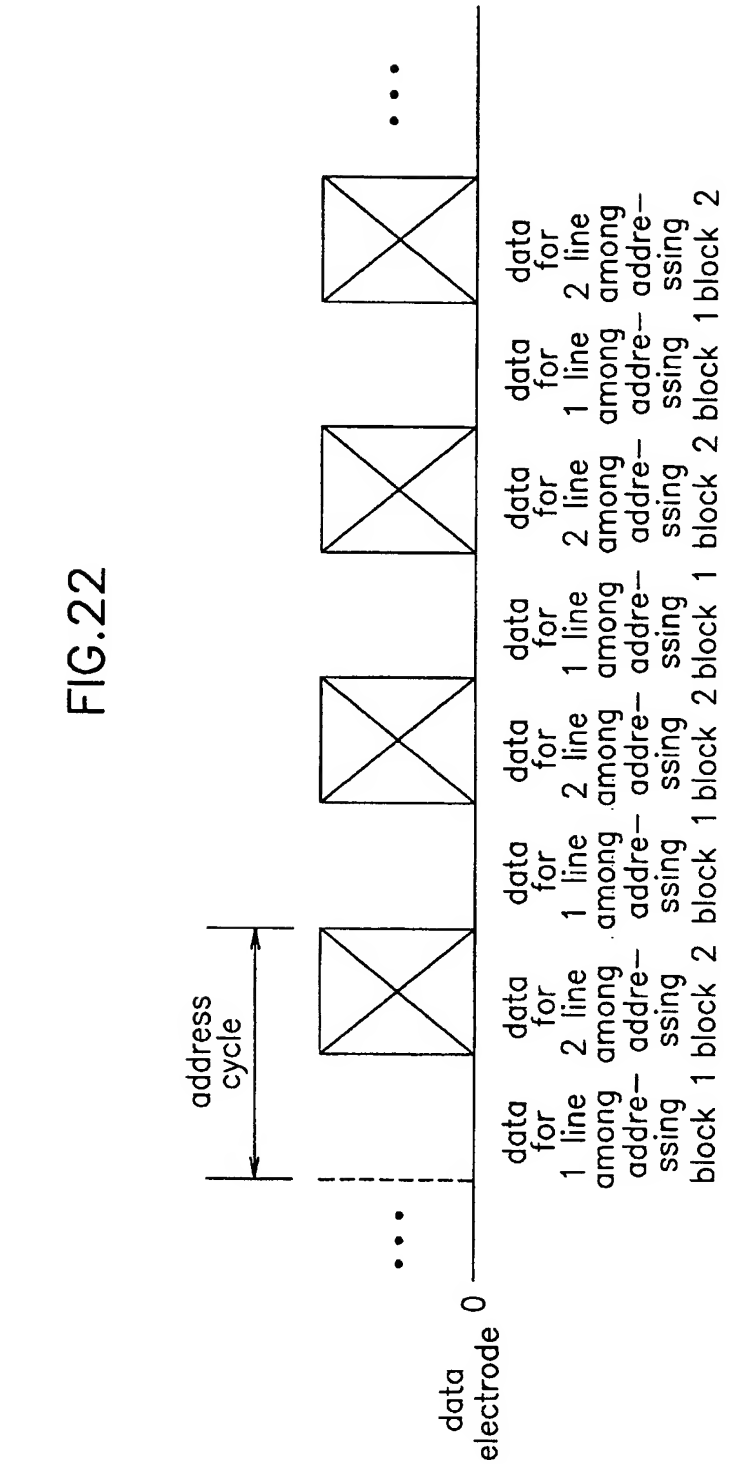
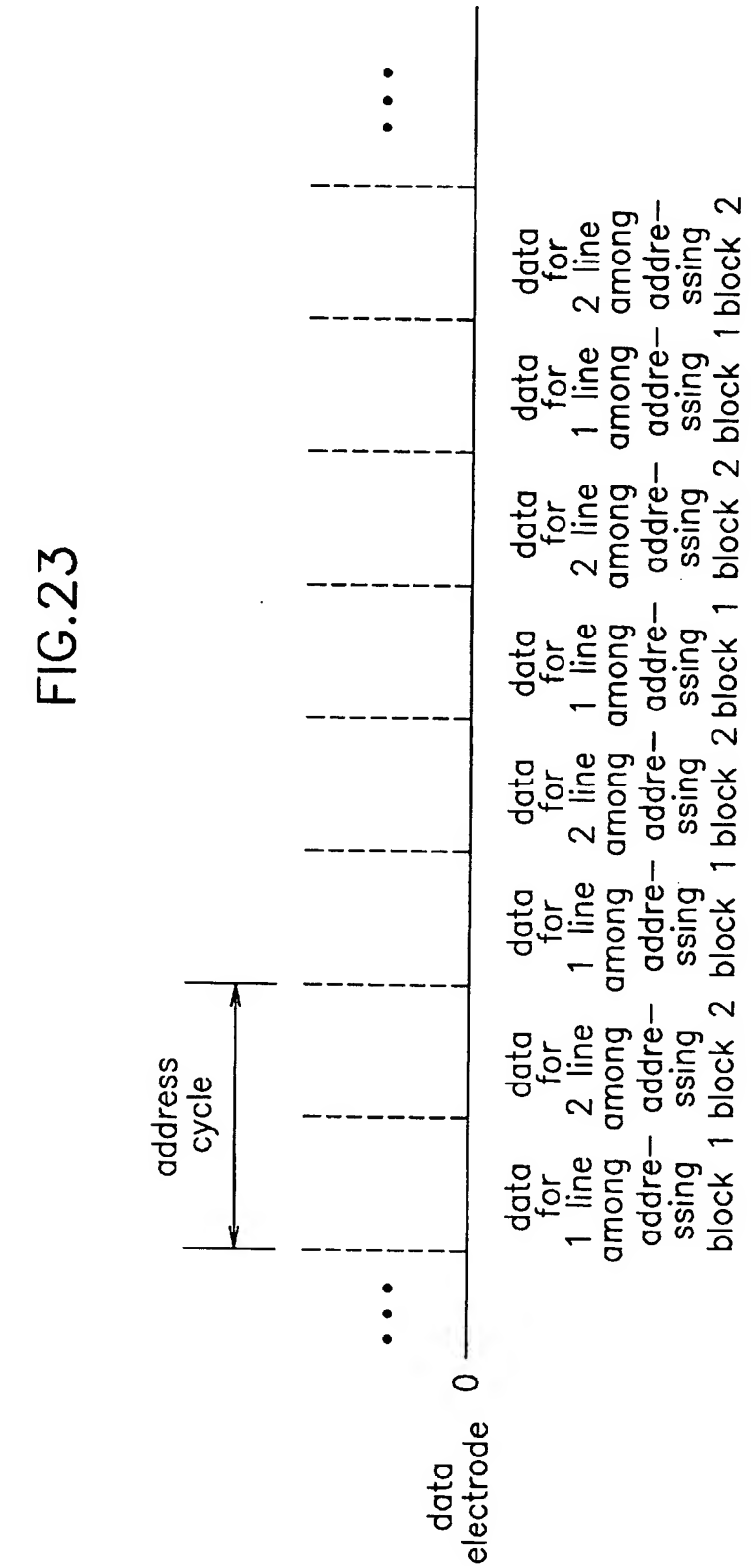

data electrode 0
address cycle
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2

FIG.23


data electrode
0
address cycle
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2
data for 1 line among addre- ssing block 1
data for 2 line among addre- ssing block 2